



# DNSSEC Workshops: Celebrating 10 Years

Russ Mundy, Parsons and Dan York, Internet Society  
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# Highlights

- First Workshop was on **05 April 2005** in Mar del Plata, Argentina
- Coordinated by the DNSSEC Deployment Initiative and the ICANN Security and Stability Advisory Committee
- **29 Workshops** held 2005 through 11 February 2015
- Held in **23 countries**
- Included a new session on DNSSEC for Everybody: A Beginners on 06 December 2010 in Cartagena, Colombia – **held 14** through 09 February 2015
- Sessions recorded for later viewing so that information spreads further.

# Participating Organizations – *So Far...*

Afilias AFNIC AFRINIC APNIC ARIN AuDA  
AusRegistry .BG .BR CIRA CNNIC Comcast CONAC  
DENIC DNS.PT DYN .EE EURID Fedora Free BSD  
GoDaddy Google IANA IP Mirror Internet Society  
ISC JPRS LACNIC LACTLD Melbourne IT Ltd.  
Microsoft .MX .MY .NA Neustar NIC.AR NIC.AT  
NIC.CL NLnet Labs NominetUK NTIA .NZ Packet  
Clearing House Parsons PayPal PIR PowerDNS  
RIPE RU-CENTER .RU SANNET .SE SGNIC  
Shinkuro SIDN Sparta SURFnet Swedbank  
TeliaSonera .TH .TW UltraDNS Verisign

# How It All Started: DNSSEC Mini-Workshop

- 05 April 2005 in Mar del Plata, Argentina
- Program:
  - Bill Manning and Kazunori Fujiwara – DNS Process-in-the-Middle Attack
  - Ram Mohan – DNSSEC Plans: .info Registry and .org Update
  - Frederico Neves – What is DNSSEC? A DNSSEC Roadmap
  - Russ Mundy – DNSSEC Overview
  - Demi Getschko – Root, ccTLDs, gTLDs
  - Pat Kane – Registries DNSSEC Deployment
  - Ed Lewis – EPP, Extensions to DNSSEC, Certificates, and ENUM

# First Workshop Participants

- Who is here today from the first workshop?
  - Steve Crocker
  - Kazunori Fujiwara
  - Bill Manning
  - Ram Mohan
  - Russ Mundy
  - Frederico Neves

# Expansion of Topics Over the Years

- Potential impacts of root key rollover
- New gTLD registries and administrators
- Guidance for registrars in supporting DNSSEC
- APIs between the registrars and DNS hosting operators
- Implementing DNSSEC validation at Internet Service Providers (ISPs)
- The operational realities of running DNSSEC



# Expansion of Topics Over the Years, Cont.

- DNSSEC automation
- When unexpected DNSSEC events occur
- DANE and DNSSEC applications
- DANE / DNSSEC as a way to secure email
- DNSSEC and DANE in the enterprise
- Hardware Security Modules (HSMs) use cases and innovation

# Topics and Events at Every Workshop

- DNSSEC deployment numbers and maps, history project
- Regional updates
- Sponsored lunch:
  - Sponsors have included Afilias, CIRA, DYN, GoDaddy, Microsoft, PIR, .SE, and SIDN
- Implementers gatherings:
  - Sponsors have included NominetUK, CNNIC, Comcast, JPRS, MPAA, NBCUniversal, NZNIC, CIRA, CZNIC, and SIDN
- Helpful information and links



# How Will the DNSSEC Workshops Evolve?

- Periodic surveys to gauge effectiveness (first one held in 2014)
- More demos
- Continue to engage registrars
- Emphasis on tools, DANE, and applications
- Highlight enterprise deployment
- Continue to encourage regional participation
- Expand beyond the usual participants



# Thank you and Questions

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